

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P290151

Luminaire Tested: **8SSRK-LN-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-80-L950-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7779.3 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

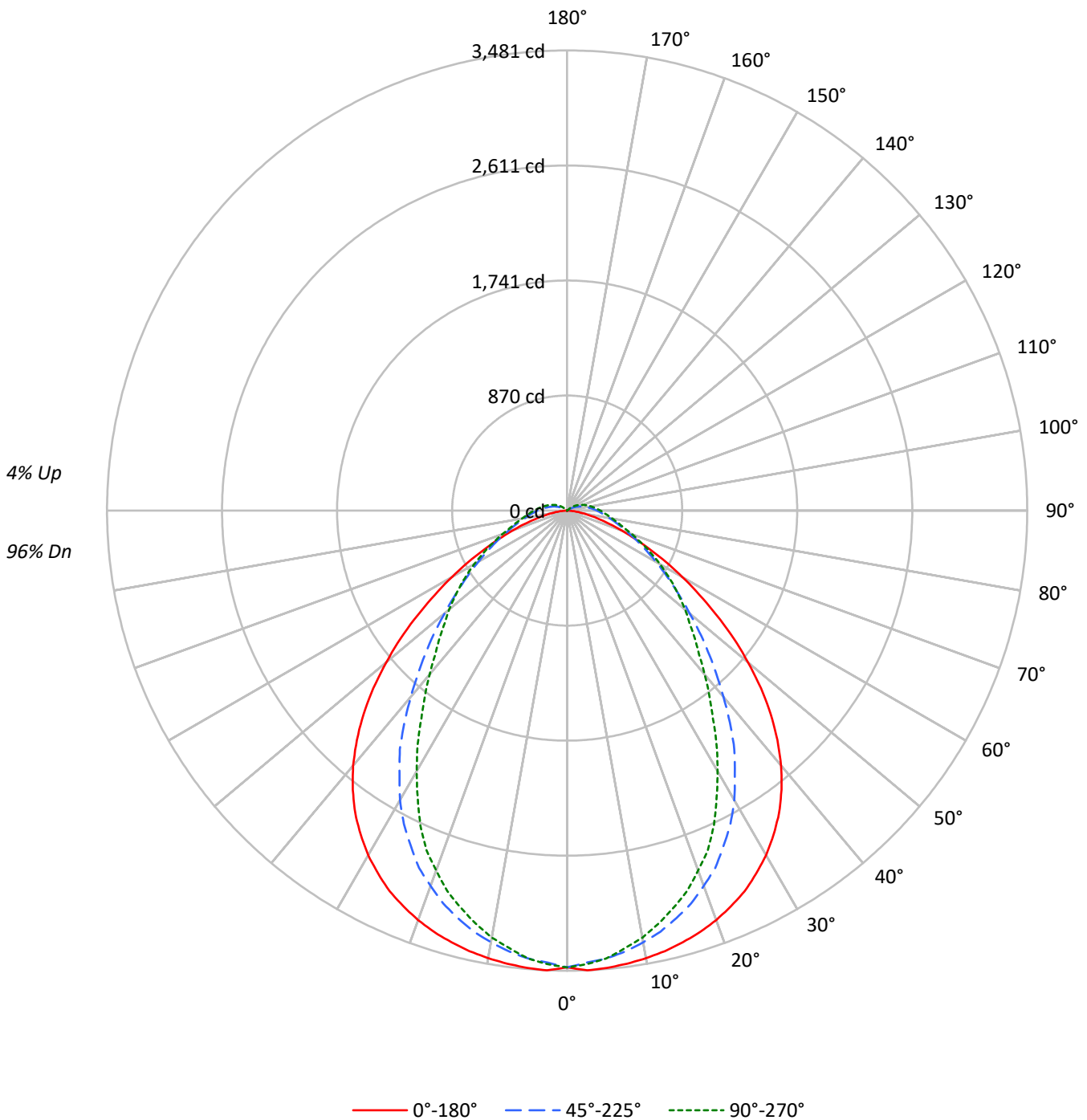
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	111586	111586	111586
5°	112343	88275	81657
10°	112325	72434	63066
15°	112388	60570	50180
20°	112425	51018	40543
25°	112124	42888	32664
30°	110900	35696	25637
35°	108596	29074	19955
40°	104348	22897	15678
45°	97491	17894	12459
50°	87456	13836	10146
55°	75382	10769	8241
60°	62789	8447	6625
65°	50050	6649	5233
70°	39052	5264	4114
75°	29230	4277	3275
80°	21155	3527	2715
85°	13137	2975	2315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	4.2
10°-20°	908.5	11.7
20°-30°	1309.3	16.8
30°-40°	1418.2	18.2
40°-50°	1256.1	16.1
50°-60°	955.8	12.3
60°-70°	636.8	8.2
70°-80°	393.4	5.1
80°-90°	246.5	3.2
90°-100°	162.0	2.1
100°-110°	99.2	1.3
110°-120°	51.2	0.7
120°-130°	16.8	0.2
130°-140°	1.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2542.2	32.7
0°-40°	3960.4	50.9
0°-60°	6172.4	79.3
0°-90°	7449.1	95.8
90°-120°	312.4	4.0
90°-150°	330.2	4.2
90°-180°	330.0	4.2
0°-180°	7779.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3456	3456	3456	3456	3456	
5°	3472	3450	3401	3414	3401	330
15°	3381	3316	3192	3149	3110	955
25°	3178	3028	2800	2680	2627	1462
35°	2795	2533	2206	1998	1924	1742
45°	2179	1838	1506	1392	1364	1672
55°	1379	1125	968	980	983	1239
65°	684	600	618	653	656	691
75°	252	307	398	424	418	279
85°	44	158	269	296	292	54
90°	2	115	224	252	251	3
95°	5	81	186	215	214	3
105°	3	32	116	148	152	3
115°	3	3	60	92	101	2
125°	2	2	2	40	50	2
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3455.6	3455.6	3455.6	3455.6	3455.6
2.5°	3481.2	3462.0	3422.7	3445.5	3434.5
5°	3472.1	3450.1	3400.7	3413.5	3400.7
7.5°	3457.4	3430.0	3364.1	3369.6	3339.4
10°	3438.2	3401.6	3316.5	3307.4	3279.9
12.5°	3413.5	3362.3	3262.5	3225.9	3199.4
15°	3380.6	3316.5	3192.1	3149.1	3109.8
17.5°	3343.1	3260.7	3116.2	3064.0	3017.3
20°	3296.4	3193.0	3021.0	2948.7	2897.5
22.5°	3239.7	3118.9	2926.8	2821.6	2780.4
25°	3177.5	3028.3	2799.6	2679.7	2626.7
27.5°	3096.0	2928.6	2674.3	2524.2	2448.3
30°	3010.0	2810.6	2528.8	2355.9	2275.4
32.5°	2906.6	2681.6	2360.4	2176.6	2105.2
35°	2795.0	2533.4	2205.8	1998.1	1924.0
37.5°	2663.3	2373.3	2021.9	1831.6	1766.7
40°	2518.7	2199.4	1839.0	1671.5	1620.3
42.5°	2354.0	2022.8	1667.0	1522.4	1478.5
45°	2179.3	1838.0	1505.9	1391.6	1364.1
47.5°	1989.0	1653.2	1355.0	1273.5	1253.4
50°	1784.1	1468.4	1208.6	1163.8	1164.7
52.5°	1589.2	1293.7	1084.2	1072.3	1069.5
55°	1378.8	1125.3	968.0	979.9	982.6
57.5°	1188.5	968.9	869.2	891.1	893.9
60°	1007.3	828.9	774.9	808.8	813.3
62.5°	841.7	709.0	694.4	729.2	728.3
65°	684.3	600.2	617.6	653.2	656.0
67.5°	550.8	511.4	553.5	584.6	582.8
70°	437.3	431.8	491.3	524.2	522.4
72.5°	340.3	365.0	442.8	471.2	463.9
75°	252.5	307.4	398.0	424.5	418.1
77.5°	185.7	259.8	358.6	384.3	379.7
80°	127.2	220.5	324.8	351.3	345.8
82.5°	81.4	187.6	295.5	321.1	317.5
85°	43.9	158.3	269.0	296.4	291.9
87.5°	16.5	134.5	245.2	272.6	270.8
90°	1.8	115.3	224.2	252.5	250.7
92.5°	2.7	97.9	204.0	233.3	233.3
95°	4.6	81.4	185.7	215.0	214.1
97.5°	3.7	68.6	165.6	197.6	197.6
100°	3.7	56.7	147.3	179.3	181.2
102.5°	3.7	44.8	131.7	162.9	166.5
105°	2.7	32.0	116.2	148.2	151.9
107.5°	2.7	18.3	100.6	134.5	139.1
110°	2.7	4.6	86.9	119.9	125.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	2.7	73.2	106.1	111.6
115°	2.7	2.7	59.5	92.4	100.6
117.5°	1.8	1.8	43.9	80.5	87.8
120°	1.8	1.8	27.4	67.7	75.0
122.5°	1.8	1.8	11.9	54.0	64.0
125°	1.8	1.8	1.8	40.3	50.3
127.5°	1.8	1.8	0.9	23.8	35.7
130°	1.8	1.8	0.9	9.1	22.0
132.5°	1.8	1.8	0.9	0.9	6.4
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)